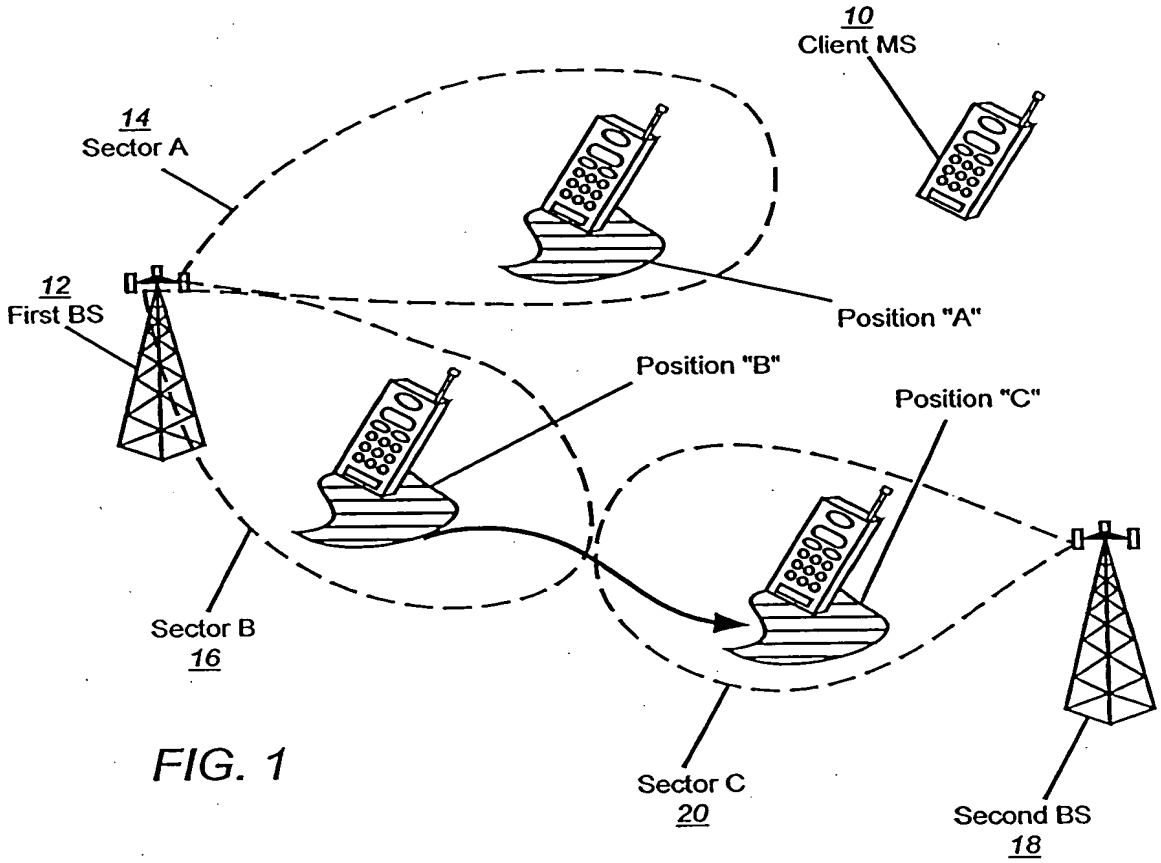
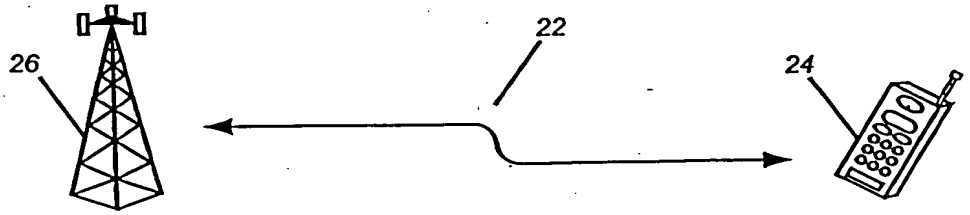


FIG. 1



Forward Link
Pilot Channel(s)
Sync Channel
Paging Channel(s)
Traffic Channels

Reverse Link
Access Channel
Traffic Channel(s)

FIG. 2

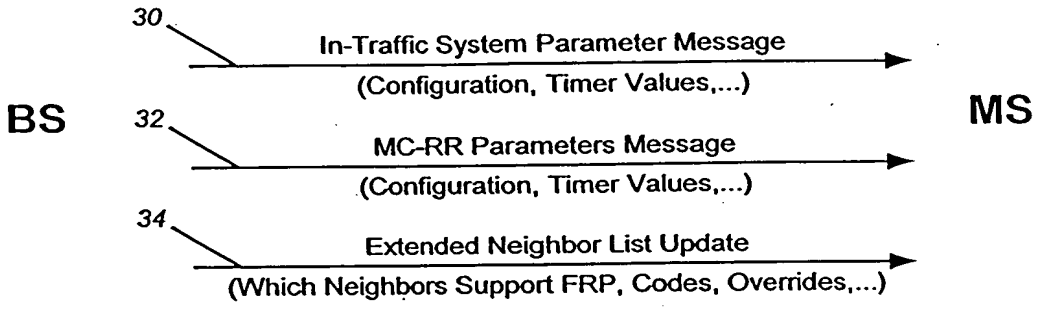

30
In-Traffic System Parameter Message
(Configuration, Timer Values,...)
BS
MS
32
MC-RR Parameters Message
(Configuration, Timer Values,...)
34
Extended Neighbor List Update
(Which Neighbors Support FRP, Codes, Overrides,...)

FIG. 3

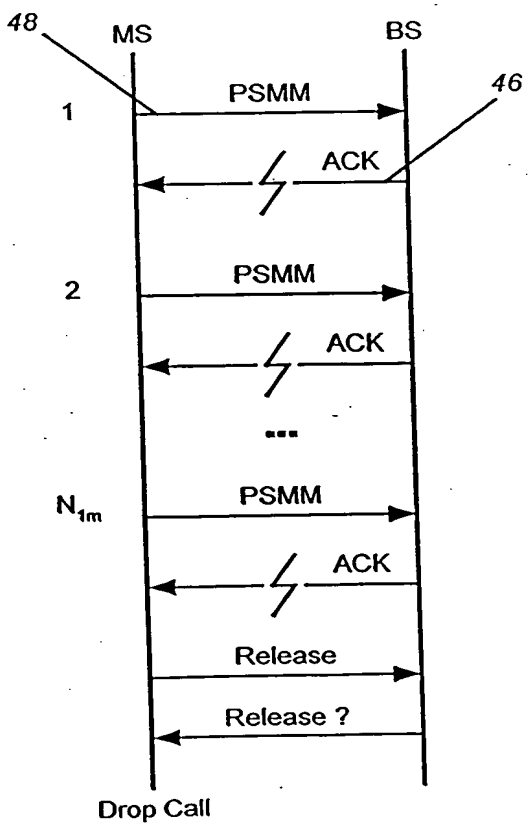

48
MS
BS
PSMM
46
1
ACK
PSMM
2
ACK
...
N_{1m}
PSMM
ACK
Release
Release ?
Drop Call

FIG. 5

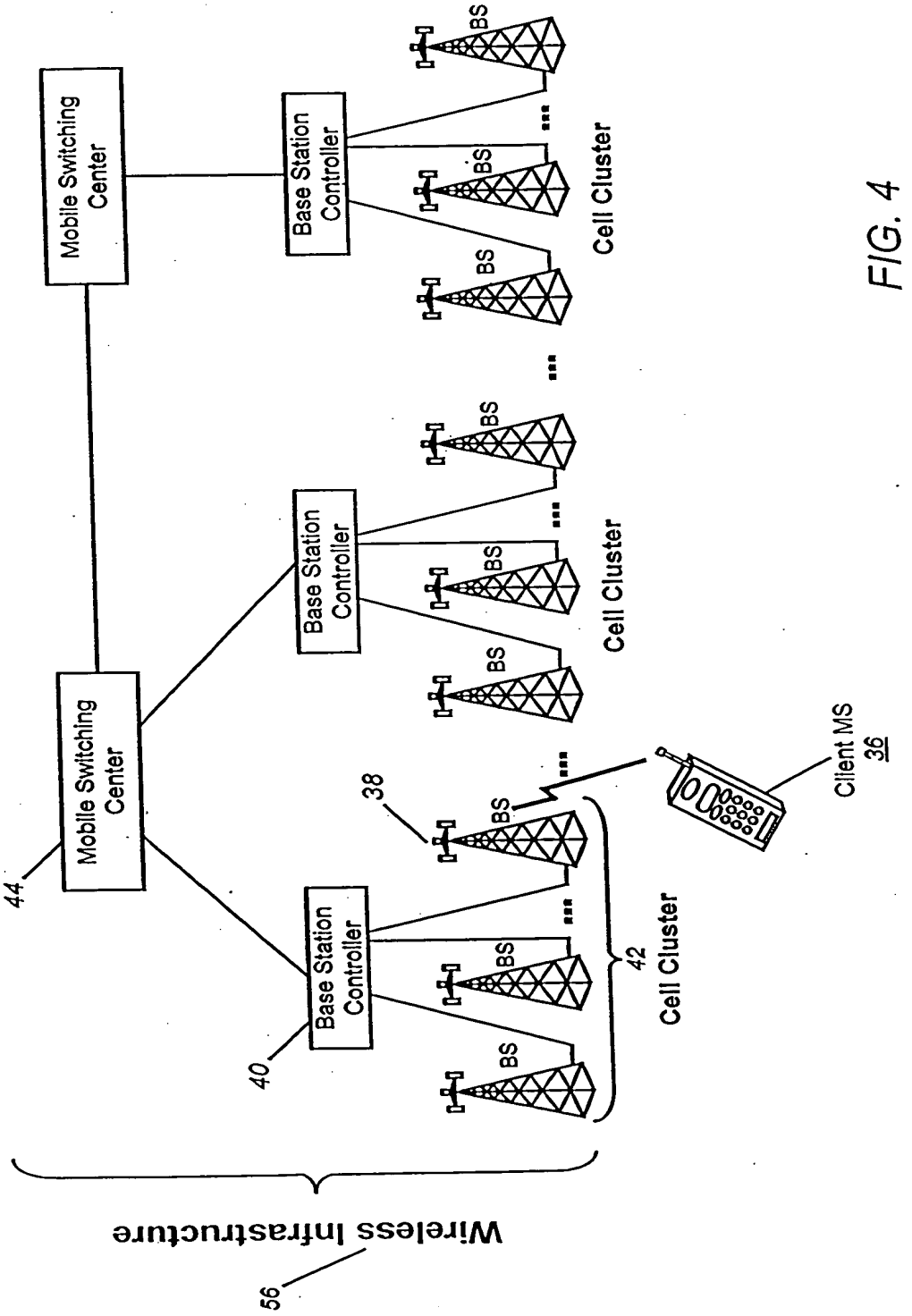

Wireless Infrastructure
56
Mobile Switching Center
44
Mobile Switching Center
Base Station Controller
40
Base Station Controller
Base Station Controller
Base Station Controller
BS
Cell Cluster
42
Cell Cluster
Cell Cluster
38
Client MS
36

FIG. 4

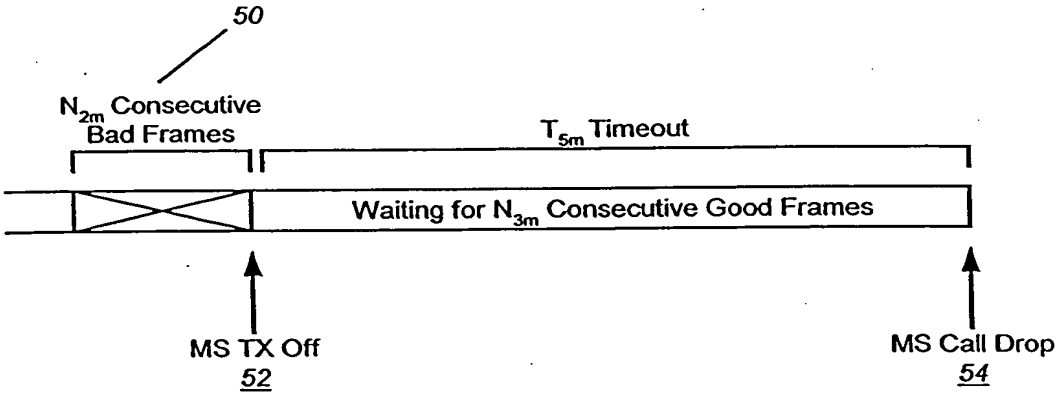

50
N_{2m} Consecutive Bad Frames
T_{5m} Timeout
Waiting for N_{3m} Consecutive Good Frames
MS TX Off
52
MS Call Drop
54

FIG. 6

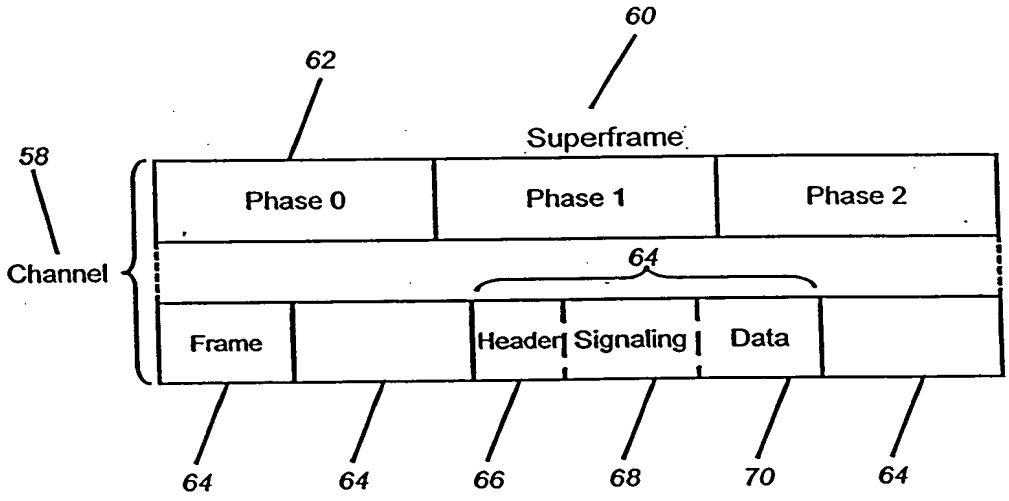

60
62
Superframe
58
Phase 0
Phase 1
Phase 2
Channel
64
Frame
Header
Signaling
Data
64
64
66
68
70
64

FIG. 7

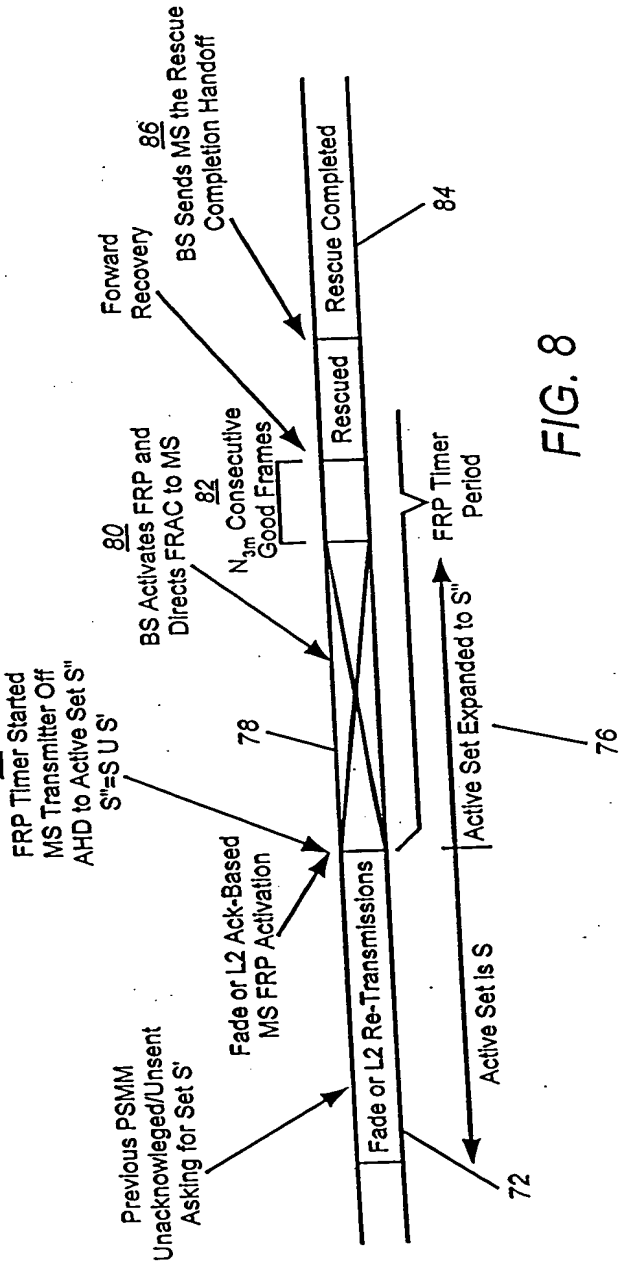

Previous PSMM Unacknowleged/Unsent Asking for Set S'
Fade or L2 Re-Transmissions
Fade or L2 Ack-Based MS FRP Activation
74
FRP Timer Started MS Transmitter Off AHD to Active Set S" S"=S U S'
78
80
BS Activates FRP and Directs FRAC to MS
82
N_{3m} Consecutive Good Frames
Forward Recovery
86
BS Sends MS the Rescue Completion Handoff
Rescued
Rescue Completed
84
Active Set Is S
Active Set Expanded to S"
FRP Timer Period
76
72

FIG. 8

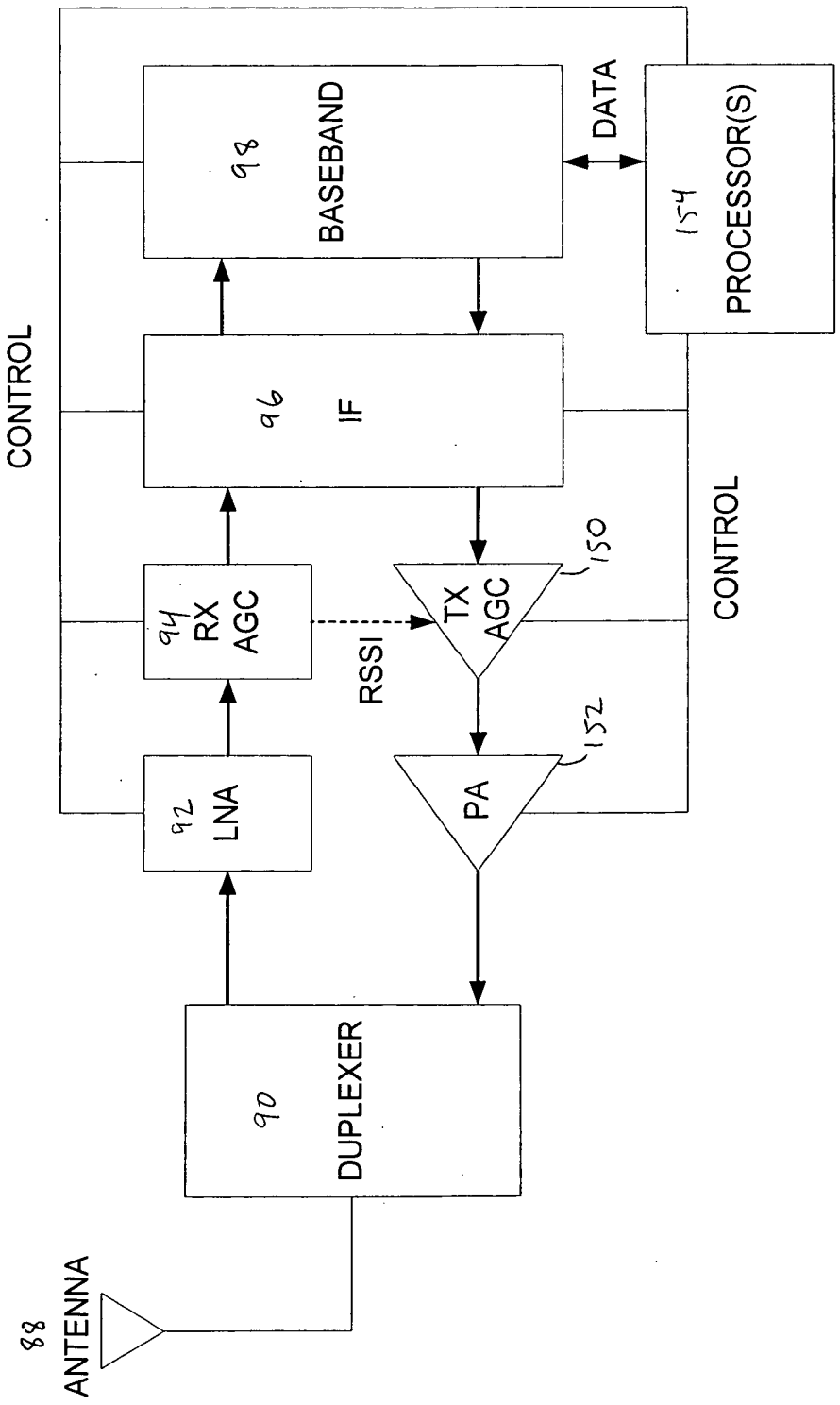

CONTROL
98
BASEBAND
DATA
154
PROCESSOR(S)
96
IF
CONTROL
94
RX
AGC
RSSI
TX
AGC
150
92
LNA
PA
152
90
DUPLEXER
88
ANTENNA

Figure 9

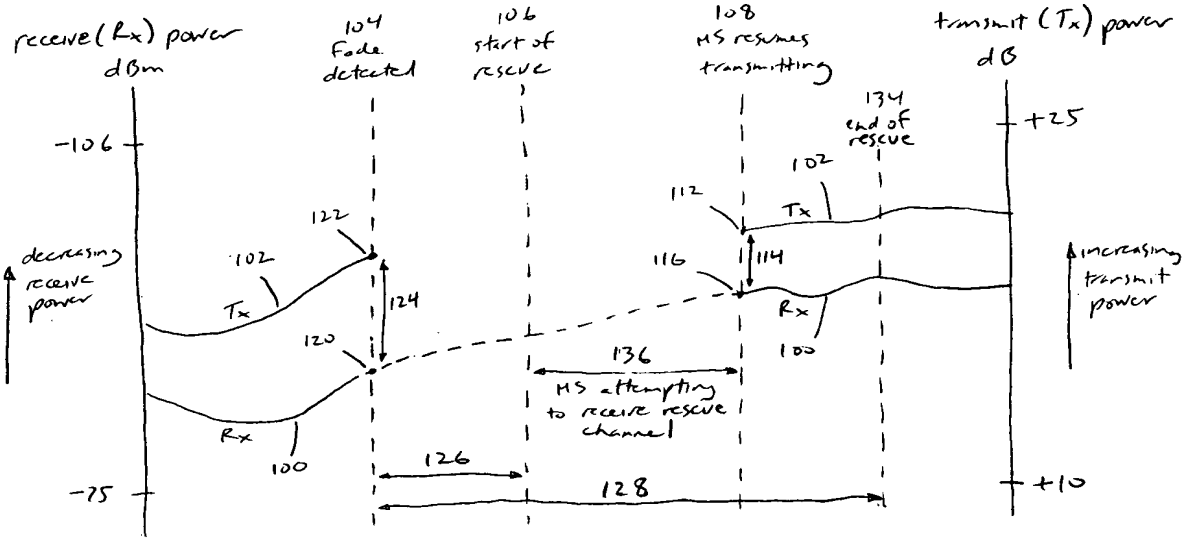


FIG. 10a
(Forward-based rescue)

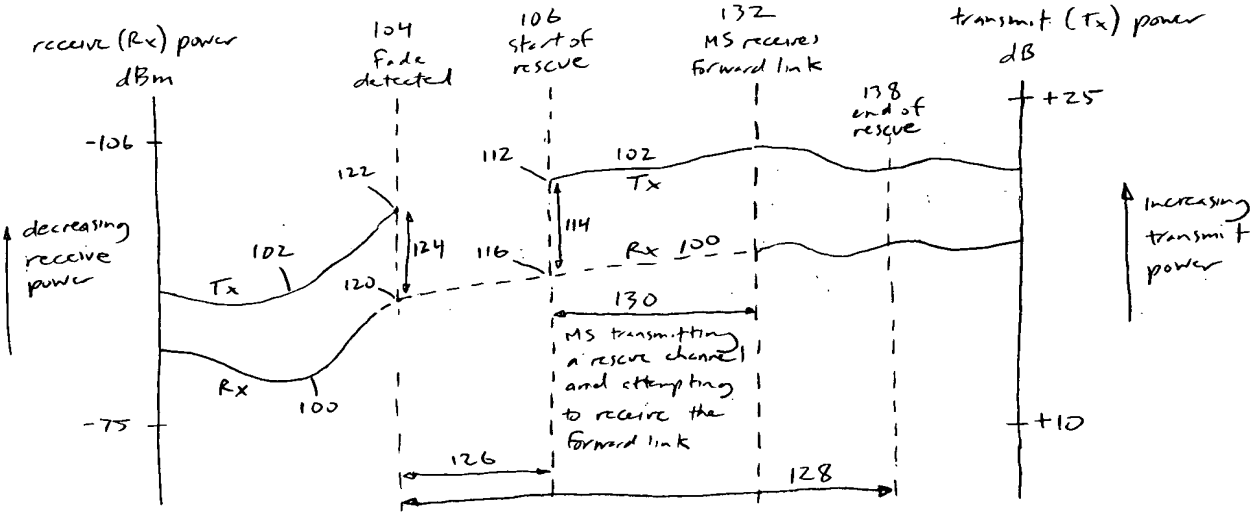


FIG. 10b
(Reverse-based rescue)

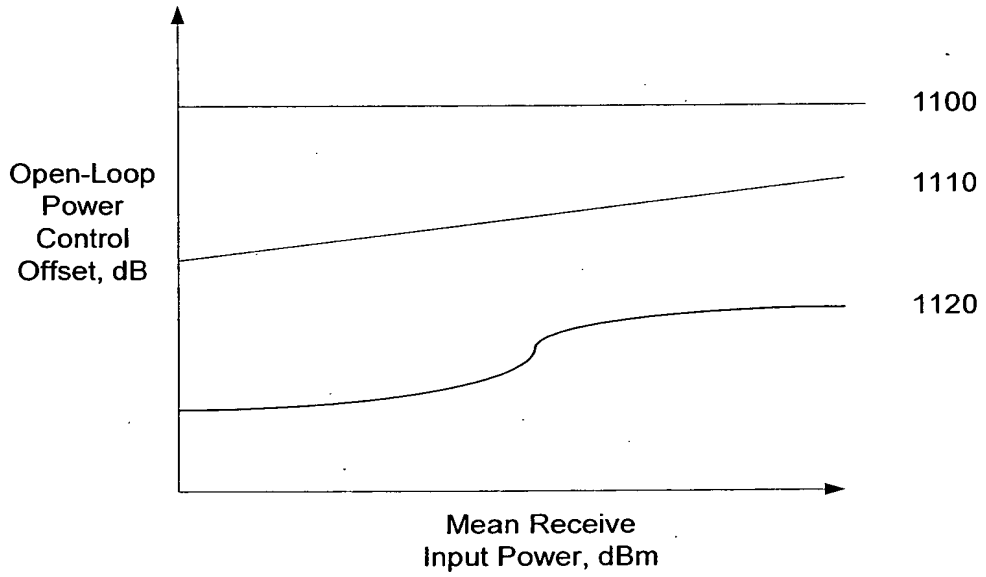

Open-Loop
Power
Control
Offset, dB
1100
1110
1120
Mean Receive
Input Power, dBm

Figure 11